What is claimed is:

1. An ink for ink jet recording, comprising at least a water-soluble colorant, a water-soluble organic solvent, water, and a mixture of two or more compounds represented by formula (I):

R-[(EO)n-(PO)m]k-T

wherein

EO represents an ethyleneoxy group;

PO represents a propyleneoxy group;

T represents an OH group or SO₃M wherein M represents a hydrogen atom, an alkali metal, an inorganic base, or an organic amine;

m and n are each an integer;

k is a natural number of not less than 1; and

R represents

a C_aH_{2a-k-1} group where "a" represents natural number of 4 to 10,

an $Ra-C_aH_{2a-k-2}$ group where "a" represents natural number of 4 to 10 and Ra represents a group represented by the following formula:

T-[(PO)m'-(EO)n']k-

wherein

EO, PO, T and k each are as defined above; and n' and m' are respectively n and m,

EO and PO being arranged, regardless of order in the parentheses, randomly or as blocks joined together,

n or n + n' being 1 to 10 with m or m + m' being 0 to 5 when n and m and n' and m' are expressed in terms of the average value for the mixture of compounds represented by formula (I) contained in the ink, or

a group represented by the following formula: K-M-O-

wherein K represents a saturated or unsaturated aromatic ring having 4 to 15 carbon atoms or a saturated or unsaturated aliphatic ring having 4 to 15 carbon atoms, M represents a bond or an alkylene group having 1 to 12 carbon atoms, and O represents an oxygen atom.

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- 2. The ink according to claim 1, wherein the compounds, represented by formula (I), constituting the mixture each are such that R represents a C_aH_{2a-k-1} group and T represents a hydrogen atom.
- 3. The ink according to claim 1, wherein the compounds, represented by formula (I), constituting the mixture each are such that R represents an $Ra-C_aH_{2a-k-2}$ group and T represents a hydrogen atom.
- 4. The ink according to claim 1, wherein the compounds, represented by formula (I), constituting the mixture each are such that R represents a C_aH_{2a-k-1} group and T represents SO_3M .
- 5. The ink according to claim 1, wherein the compounds, represented by formula (I), constituting the mixture each are such that R represents a C_aH_{2a-k-1} group, EO represents $-CH_2CH_2O-$, PO represents $-CH(CH_3)-CH_2O-$, and T represents a hydrogen atom, R, EO, PO, and T being attached to one another in that order to represent formula R-(EO)n-(PO)m-T.
- 6. The ink according to claim 1, wherein the mixture of compounds represented by formula (I) is composed of:
- a compound represented by formula (I) wherein R represents a C_aH_{2a-k-1} group and T represents a hydrogen atom, R, EO, PO, and T being attached to one another in that order to represent formula R-(EO)n-(PO)m-T; and
- a compound represented by formula (I) wherein R represents a C_aH_{2a-k-1} group and T represents a hydrogen atom, R, EO, PO, and T being attached to one another in that order to represent formula R-(PO)m-(EO)n-T.
- 7. The ink according to claim 1, wherein n and m in the mixture of compounds represented by formula (I) satisfy $n/m \ge 0.5$.
- 8. The ink according to claim 1, wherein the compound represented by formula (I) has an average molecular weight of not more than 2000.
- 9. The ink according to claim 1, wherein the mixture of compounds represented by formula (I) is composed of:
 - a compound represented by formula (I) wherein R

represents a butyl, pentyl, hexyl, heptyl, octyl, nonyl, or decyl group; and

a compound represented by formula (I) wherein R represents a butyl, pentyl, hexyl, heptyl, octyl, nonyl, or decyl group.

10. The ink according to claim 1, wherein R represents a straight-chain or branched C_aH_{2a-k-1} group.

- 11. The ink according to claim 1, wherein the compounds, represented by formula (I), constituting the mixture each are such that R represents the group K-M-O- and T represents a hydrogen atom.
- 12. The ink according to claim 11, wherein K represents a saturated or unsaturated aromatic ring having 4 to 15 carbon atoms or a saturated or unsaturated aliphatic ring having 4 to 15 carbon atoms. M represents a bond or an alkylene group having 1 to 12 carbon atoms, and 0 represents an oxygen atom.
- 13. The ink according to claim 1, which further comprises 0 to 10% by weight of (di)propylene glycol monobutyl ether.
- 14. The ink according to claim 13, wherein the weight ratio of the compound represented by formula (I) to (di)propylene glycol monobutyl ether is 1:0 to 1:10.
- 15. The ink according to claim 1, which further comprises 0 to 5% by weight of an acetylene glycol surfactant.
- 16. The ink according to claim 15, wherein the weight ratio of the compound represented by formula (I) to the acetylene glycol surfactant is 1:0 to 1:3.
- 17. The ink according to claim 1, which further comprises 0 to 20% by weight of di(tri)ethylene glycol monobutyl ether.
- 18. The ink according to claim 17, wherein the weight ratio of the compound represented by formula (I) to di(tri)ethylene glycol monobutyl ether is 1:0 to 1:10.
- 19. The ink according to claim 1, wherein the water-soluble colorant is a water-soluble dye and/or a water-soluble pigment dispersible in water.
 - 20. An ink jet recording method comprising the steps

of: ejecting a droplet of an ink; and depositing the droplet onto a recording medium to perform printing, wherein the ink is one according to claim 1.

21. A recorded medium recorded by the ink jet recording method according to claim 20.

